California Department of Conservation

FARMLAND MAPPING AND MONITORING PROGRAM

SOIL CANDIDATE LISTING

for

PRIME FARMLAND AND FARMLAND OF STATEWIDE IMPORTANCE

IMPERIAL COUNTY

U.S. Department of Agriculture, Natural Resources Conservation Service, soil surveys for Imperial County include:

Soil Survey of Imperial County, California, Imperial Valley Area, October 1981

Soil Survey of Yuma-Wellton Area: Parts of Yuma County, Arizona, and Imperial County, California, December 1980

Soil Survey of Palo Verde Area, California, September 1974

Beginning in 2002, SSURGO digital soil information has been incorporated into the Imperial County Important Farmland Map. Prior versions of the map have not been modified.

The SSURGO data includes Imperial County, Imperial Valley Area (published 3/22/2004), Yuma-Wellton Area (published 08/11/2004) and Palo Verde Area (published 4/20/2004). The digital surveys contain additional soil units beyond those published in the original paper surveys. Soils on the Prime and Statewide lists that only occur in the SSURGO data are appended to this list in italics.

For more information on the NRCS SSURGO data, please see: http://www.ftw.nrcs.usda.gov/ssur_data.html

7/12/95, updated 03/07/05

IMPERIAL COUNTY
PRIME FARMLAND SOILS

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
DAVIS, CALIFORNIA 95616

THESE SOIL MAPPING UNITS MEET THE CRITERIA FOR PRIME FARMLAND AS OUTLINED IN THE U.S. DEPARTMENT OF AGRICULTURE'S LAND INVENTORY AND MONITORING (LIM) PROJECT FOR THE IMPERIAL VALLEY AREA, YUMA-WELLTON AREA (WINTERHAVEN), AND PALO VERDE AREA SOIL SURVEYS.

IMPERIAL VALLEY AREA

Symbol	Name
100	Antho loamy fine sand
101*	Antho-Superstition complex
105	Glenbar clay loam
106	Glenbar clay loam, wet
108	Holtville loam
109	Holtville silty clay
110	Holtville silty clay, wet
117	Indio loam
118	Indio loam, wet

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* Prime Farmland is managed so that in all horizons within a depth of 40 inches (1 meter), during part of each year the conductivity of the saturation extract is less than 4 mmhos/cm and the exchangeable sodium percentage (ESP) is less than 15.

IMPERIAL VALLEY AREA Cont.

Symbol	Name
119	Indio-Vint complex
120	Laveen loam
122	Meloland very fine sandy loam, wet
123	Meloland and Holtville loams, wet
137	Rositas silt loam, 0 to 2 percent slopes
139*	Superstition loamy fine sand
142	Vint loamy very fine sand, wet
143	Vint fine sandy loam
144	Vint and Indio very fine sandy loams, wet

* Prime Farmland is managed so that in all horizons within a depth of 40 inches (1 meter), during part of each year the conductivity of the saturation extract is less than 4 mmhos/cm and the exchangeable sodium percentage (ESP) is less than 15.

Note: Soils 107 (Glenbar complex), 132 (Rositas fine sand, 0 to 2 percent slopes), 133 (Rositas fine sand, 2 to 5 percent slopes), 135 (Rositas fine sand, wet, 0 to 2 percent slopes), 136 (Rositas loamy fine sand, 0 to 2 percent slopes) and 138 (Rositas and Superstition loamy fine sands) have been moved from the Prime Farmland list to the Farmland of Statewide Importance list per NRCS in 1995.

JPR Revised RLW 2/24/81
Retyped 7/12/95

YUMA-WELLTON AREA (Imperial County portion)

Symbol	Name
8[#]	Gadsden clay
10[#]	Glenbar silty clay loam
12[*#]	Holtville clay
13[*#]	Indio silt loam
17	Kofa clay
24	Ripley silt loam

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[*] Prime Farmland if the soils have a pH between 4.5 and 8.4 in all horizons within a depth of 40 inches. If the soil reaction is greater than pH 8.4 and less than 9.0, this mapping unit should be Farmland of Statewide Importance.

[#] Prime Farmland if the soil can be managed so that, in all horizons within a depth of 40 inches, during part of each year the electrical conductivity of the saturation extract is less than 4 mmhos/cm and the exchangeable sodium percentage is less than 15. If the electricial conductivity is greater than 4 but less than 16 mmhos/cm, the mapping unit should be Farmland of Statewide Importance.

Notes: *Soil 8* (Gadsden clay) was moved from the Farmland of Statewide Importance list to the Prime Farmland list per AZ NRCS letter of September 27, 2004.
Soil 19 (Lagunita silt loam) was removed from the Prime Farmland list per AZ NRCS letter of September 27, 2004.

RLW 9/21/81
Retyped 7/12/95

PALO VERDE AREA

Symbol	Name
Ac	Aco gravelly loamy sand
Af	Aco sandy loam
Gb	Gilman fine sandy loam
Gc	Gilman silty clay loam
Ge	Glenbar silty clay loam
Hb*	Holtville fine sandy loam
Hc*	Holtville silty clay
Id*	Indio very fine sandy loam
Ie*	Indio silty clay loam
Oc*	Orita fine sand
Og*	Orita gravelly loamy sand
Or*	Orita gravelly fine sandy loam
Rb*	Ripley very fine sandy loam
Rc*	Ripley silty clay loam
RoA	Rositas fine sand, 0 to 2 percent slopes
RoB	Rositas fine sand, 2 to 9 percent slopes
RtA	Rositas silty clay loam, 0 to 2 percent slopes

* This unit is Prime Farmland only if reclaimed such that the electrical conductivity is less than 4 mmhos/cm.

Symbol	Name
9#	*Gadsden clay*
9A#	*Gadsden loam*
36#	*Indio silt loam*

This unit is Prime Farmland only if either protected from flooding or not frequently flooded during the growing season.

Revised 10/22/80
retyped: 7/12/95

IMPERIAL COUNTY
FARMLAND OF STATEWIDE
IMPORTANCE SOILS

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
DAVIS, CALIFORNIA 95616

THESE SOIL MAPPING UNITS MEET THE CRITERIA FOR FARMLAND OF STATEWIDE IMPORTANCE AS OUTLINED IN THE U.S. DEPARTMENT OF AGRICULTURE'S LAND INVENTORY AND MONITORING (LIM) PROJECT FOR THE IMPERIAL VALLEY AREA, YUMA-WELLTON AREA (WINTERHAVEN), AND PALO VERDE AREA SOIL SURVEYS.

IMPERIAL VALLEY AREA

Symbol	Name
107	Glenbar complex
111	Holtville-Imperial silty clay loams
112	Imperial silty clay
113	Imperial silty clay, saline
114	Imperial silty clay, wet
115	Imperial-Glenbar silty clay loams, wet, 0 to 2 percent slopes
116	Imperial-Glenbar silty clay loams, 2 to 5 percent slopes
121	Meloland fine sand
124	Niland gravelly sand
125	Niland gravelly sand, wet
126	Niland fine sand
127	Niland loamy fine sand
128	Niland-Imperial complex, wet
130	Rositas sand, 0 to 2 percent slopes

Symbol	Name
131	Rositas sand, 2 to 5 percent slopes
132	Rositas fine sand, 0 to 2 percent slopes
133	Rositas fine sand, 2 to 9 percent slopes
135	Rositas fine sand, wet, 0 to 2 percent slopes
136	Rositas loamy fine sand, 0 to 2 percent slopes
138	Rositas and Superstition loamy fine sands

RLW Revised 2/24/81
Retyped 7/12/95

YUMA-WELLTON AREA (Imperial County Portion)

Symbol	Name
14*	Indio silt loam, saline
16*	Indio-Lagunita-Ripley complex
18*	Lagunita loamy sand
25*	Rositas sand

* Due to insufficient documentation of qualifying criteria, these units were dropped from the Farmland of Statewide Importance list per the Arizona office of NRCS (September 27, 2004).

Note: *Soil 8* (Gadsden Clay) was moved to the Prime Farmland list from the Farmland of Statewide Importance list per AZ NRCS letter of September 27, 2004.

RLW 9/17/81
Retyped 7/12/95

PALO VERDE AREA

Symbol	Name
Co	Cibola fine sandy loam
Cs	Cibola silty clay loam
Ib	Imperial fine sandy loam
Ic	Imperial silty clay
Md	Meloland fine sandy loam
Me	Meloland silty clay loam
RsA	Rositas gravelly loamy sand, 0 to 2 percent slopes

Revised 10/22/80
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